



DAYLIFF SUNFLO-A pumps are specifically designed for PV solar powered water supply from wells and boreholes. They are of rotary screw design and material of construction for rotary screw is stainless steel with a rubber stator. Pumps are of simple structure and features an inbuilt controller.

Motor

Permanent magnet, oil filled, brushless, DC motor specifically designed for maximum efficiency from solar module power source. It should be powered by solar array configured to provide the input voltage and sized at approximately 130% of the rated motor power.

Pump Outputs

Performance curves are given at standard test conditions of 1000W/m² solar irradiance and 25°C. Output will vary throughout the year depending upon prevailing irradiation levels. For estimated daily outputs at continuous pumping, multiply the indicated output at the duty point by the daily irradiation given in Graph 1. For indicative purposes, factors of 1.1 can be applied for hot arid areas and 0.9 for temperature high altitude areas in the Tropics. Output will vary throughout the day as a proportion of the estimated hourly irradiation as shown in Graph 2.

Operating Parameters

Pumped liquid: Thin, clean, chemically non-aggressive liquids with a sand content of less than 0.1%.

Max. Liquid Temperature: +40°C

Ambient Temperature: -20°C - +50°C

Min. Immersion Depth: 0.5m

Max Immersion Depth: 30m

Min. Borehole Diameter: 125mm

Enclosure Class: IP68

Insulation Class: B

Speed: 2900rpm

Pump Data

Model	Input Voltage (V)	Motor Rating (W)	Input Power (W)	Peak Voltage (V)	Open Circuit Voltage (VOC)	DN (")	Dimensions (mm)		Weight (kg)
							H	W	
SUNFLO-A 150H	24	150	200	≥30	<50	3/4	680	76	7
SUNFLO-A 270H	36	270	350	≥45	<100	3/4	860	76	7
SUNFLO-A 600H	48	600	780	≥60	<100	3/4	1350	76	8

